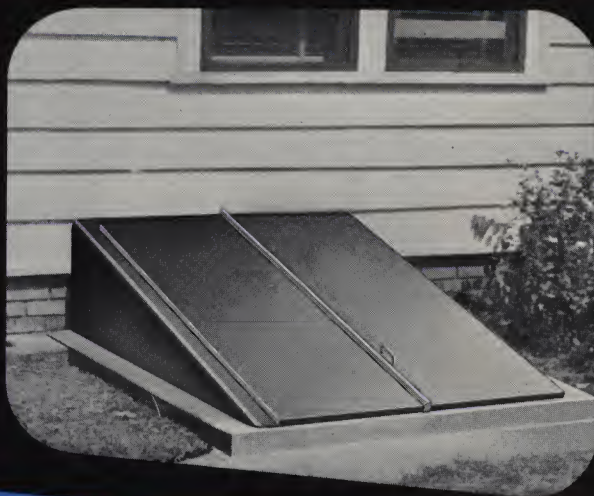
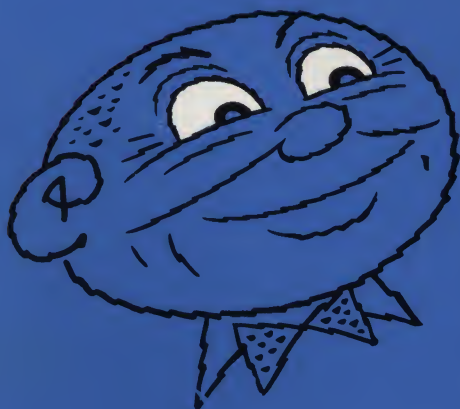
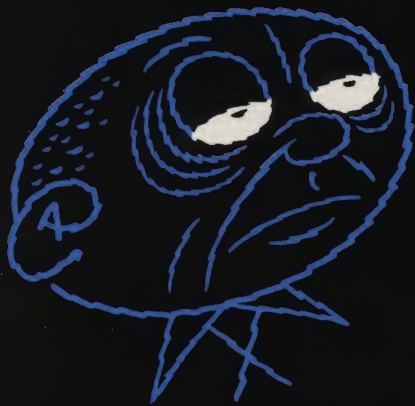


# How to replace your wornout wood hatchway...



...with a modern  
all-steel

**Bilco<sup>®</sup>**

AMERICA'S FINEST  
BASEMENT DOOR



# How to Measure for Replacement:

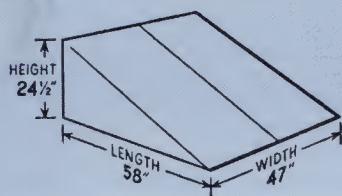
To determine the size BILCO Door you need to replace your wood hatchway, follow these 5 easy steps:



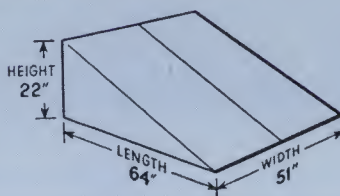
- Disregard dimensions of present wood hatchway.
- Measure width of the cellarway inside the masonry walls. This is the same as the width of the steps. (Dimension 1)
- Measure from outside of house foundation wall to inside edge of top step. (Dimension 2)
- Refer to overall dimensions of standard size BILCO Doors. Select the one which will overlap these masonry opening dimensions at least 2" or 3" all around. Of course, it may overlap more than that up to the maximum width of the masonry walls, which are usually 8".
- Overall height of BILCO should be sufficient to enclose inside door opening. (Dimension 3).

Note: If masonry opening does not conform to standard size BILCO Door, refer to special applications — page 5.

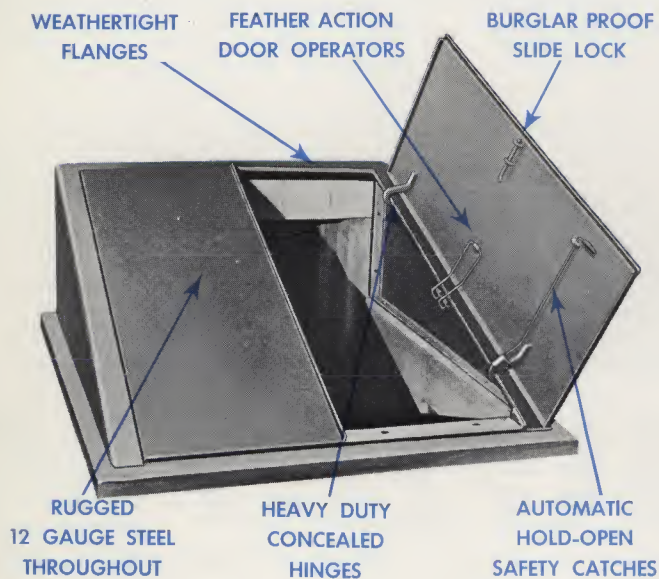
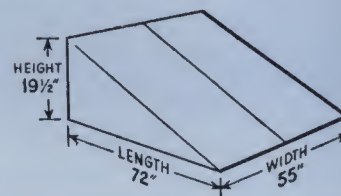
**SIZE A Bilco Door**



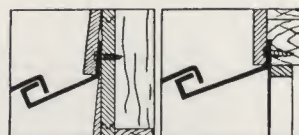
**SIZE B Bilco Door**



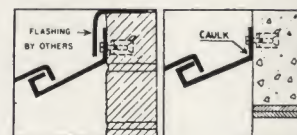
**SIZE C Bilco Door**



## APPLICATION of HEADER FLANGE



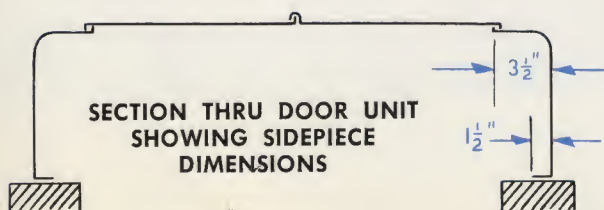
SECTION SHOWING HEADER FOR FRAME CONSTRUCTION



SECTION SHOWING HEADER FOR MASONRY CONSTRUCTION



COMPACTLY PACKAGED FOR EASY HANDLING—FAST ONE MAN INSTALLATION



SECTION THRU DOOR UNIT SHOWING SIDEPiece DIMENSIONS





## 1 REMOVE WOOD DOOR

Removing your wood hatchway is the next thing to having it fall off by itself. Surprisingly easy, and in about 15 minutes, you should be ready for Step 2.



## 2 ASSEMBLE FRAME

Break steel strapping on BILCO package. Assemble frame in accordance with instruction sheet. A couple of minutes to tighten eight nuts and bolts and on to Step 3.



## 3 CUT OUT SHINGLES OR CLAPBOARDS

Fit BILCO tightly against house foundation by marking around back of frame. Cut out shingles or clapboards so you will have a snug fit (this step not necessary on masonry house).



## 6 REMOVE DOORS AND MARK HOLES

Pull the four hinge pins and remove doors. Mark masonry with pencil through holes in flanges.



## 7 REMOVE FRAME AND DRILL HOLES

Remove frame and drill holes with  $\frac{5}{8}$ " star drill 1" deep. A carbide tip masonry drill and electric drill if you have them saves time on this step.



## 8 REPLACE FRAME AND FASTEN TO CONCRETE

Set shields in holes to receive bolts, replace frame, and tighten down to concrete.





#### 4 ASSEMBLE DOORS TO FRAME

Put doors on frame by inserting four pins — one in each hinge. All assembly bolts and hardware are furnished with the BILCO Door.



#### 5 CHECK ALIGNMENT OF DOORS

Check to see that doors line up and operate properly. If out of square, caused by uneven masonry, move unit to right or left to bring into alignment.



#### 9 INSTALL DOOR OPERATORS

Attach "Feather Action" operators in a few seconds by sliding pins into place according to instruction sheet.



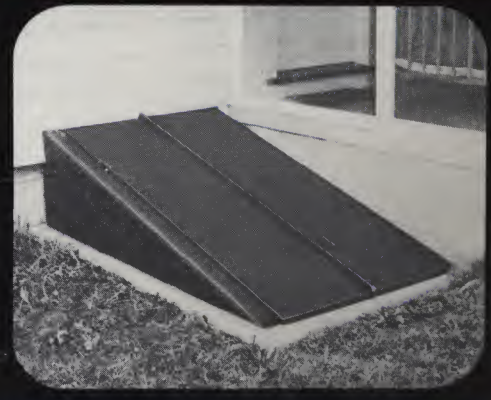
#### 10 CAULK

Caulk around base, in front of sill, and against house to insure weathertightness, using caulking compound supplied with door.

Here you can follow, step by step, a typical wood hatchway replacement installation. The leaky, wornout door had deteriorated to the point where it was a constant source of annoyance. Also it had become dangerous for children and grown-ups who might walk on it.

Guided by the complete instructions included in the BILCO Door package, the average homeowner can accomplish this transformation in a few hours. A hammer, screwdriver, wrench and masonry drills are the only tools required.

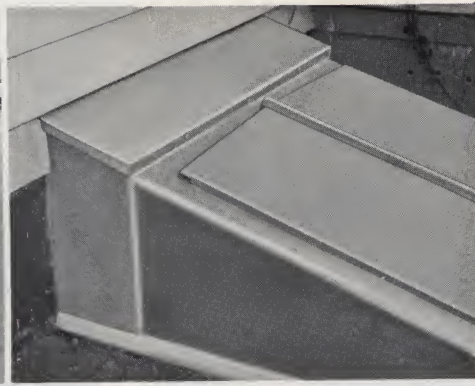
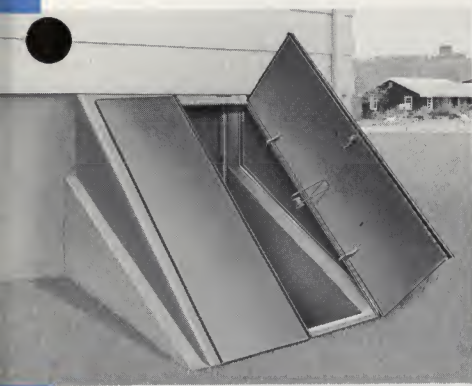
*Now, see  
the result.*



Here's your finished job, the result of 3 or 4 hours pleasant work. Your family and friends will marvel at the improvement in the appearance of your home.



# SPECIAL APPLICATIONS



Here are typical BILCO Door installations showing how easily the units are adapted to odd size stair wells. In one, the door is raised to the height necessary to enclose the inside door opening. This type of installation applies to homes built on sloping lots and split level homes. The other shows an extension built against the house to enclose a stair well that is longer than the largest BILCO Door.

## MORE HEIGHT

A BILCO can be raised to any required height in a few minutes by cutting off the backs of the side pieces with a hand hacksaw. To determine the cut line refer to the chart on page 6. Set door in place and pour concrete under it.

## EXTENDED

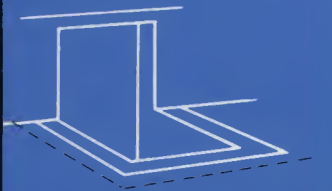
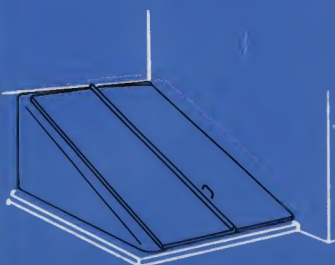
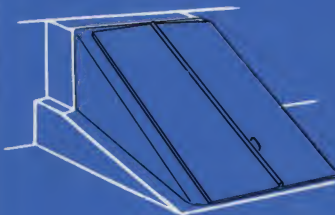
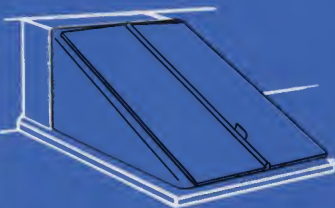
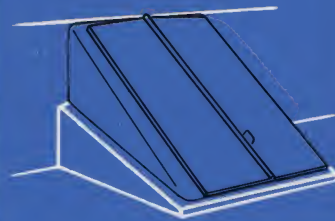
When additional length is needed, an extension built against the house will bring the BILCO Door out sufficiently to enclose the stair well. Such extensions usually are brick or masonry blocks on each side covered with a piece of light gauge metal formed to flash against the house and down over the header flange.

## RAISED AND EXTENDED

When a BILCO Door is extended, it is sometimes necessary to raise it a little to allow sufficient head room when entering or leaving the basement. This installation is a combination of the two above.

## CORNER INSTALLATION

A BILCO Door is installed in a corner by drilling three or four holes along the sloping edge of the side piece so it can be fastened tightly against the wall with lag screws. A coat of metal enamel should be applied to this side before it is put in place. The joint is then caulked to prevent water from seeping down between the side piece and the house.



## PARALLEL INSTALLATION

Homes with open stair wells that run parallel to the house can be enclosed with a BILCO Door by building a permanent enclosure at the back. The side piece is fastened to the house wall in the manner described under "Corner Installation". The enclosure is usually masonry blocks covered with metal.

## SLOPING WALLS

If your wood hatchway rests on top of sloping masonry walls, these can usually be quickly removed with a sledge hammer to grade level or a little below. Set the BILCO Door in place using anchor bolts provided and pour a new concrete cap under it.

## OPENING TOO WIDE

When the width of the masonry will not allow enough overlap to fasten down the 1½" flanges, it should be reduced. This can be done by building a concrete cap that extends into the opening on one or both sides or by building up a course of concrete blocks on the inside of one or both side walls.

## OPENING TOO NARROW OR TOO SHORT

When the overall width or length of the BILCO Door goes beyond the present masonry pour a little additional concrete along the side or across the front to support the door.



# Breaking Through Foundation

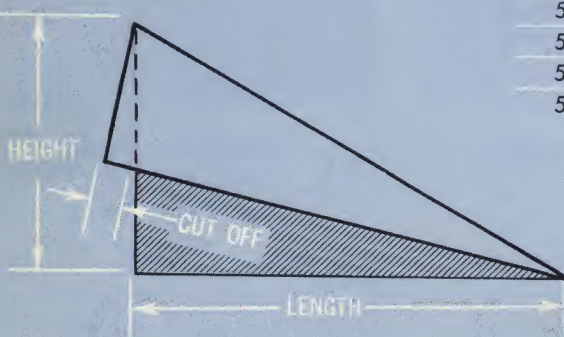
If your home was built without the convenience and safety afforded by an outside stair well, installing one will give you a whole new concept of basement living. It's a must for easy storage, a well equipped, practical workshop, a rumpus room that's easily accessible from out of doors and safe should fire block the inside stair.

Usually a job for a contractor, building an outside stair well topped with a modern BILCO Door is a project often done by the homeowner himself. These photos will give you the idea. Construction of the areaway is covered in the installation instructions supplied with the BILCO Door. For simplicity and economy, BILCO Stair stringers are recommended instead of masonry steps.



## HOW TO INCREASE THE HEIGHT OF THE BILCO DOOR

The standard height of a BILCO Door will usually be adequate if your home is on a fairly level lot. When the inside door is higher, this handy chart and diagram will enable you to quickly determine the amount to cut off the backs of the sidepieces. As the BILCO is raised, the length is reduced and this dimension is also shown. New concrete is then poured to fill the triangular opening under the door.



SIZE A			SIZE B			SIZE C		
HEIGHT	LENGTH	CUT OFF	HEIGHT	LENGTH	CUT OFF	HEIGHT	LENGTH	CUT OFF
24½	58	0	22	64	0	19½	72	0
26½	57	⅞	24	53	⅞	21½	71½	⅞
28½	56	1¾	26	62½	1¾	23½	70½	1⅞
30½	55	2⅝	28	61½	2⅞	25½	70	1⅞
32½	53½	3½	30	60½	2⅞	27½	69	2⅞
34½	52½	4½	32	59½	3⅞	29½	68½	2¾
36½	51	5½	34	58½	4⅞	31½	67½	3⅞
38½	49½	6½	36	57	5⅞	33½	66½	4
40½	48	7½	38	56	5⅞	35½	65½	4⅞
42½	46½	8⅞	40	54½	6¾	37½	64½	5¼
44½	44½	10	42	53	7¾	39½	63	5⅞
46½	42	11¼	44	51	8¾	41½	62	6½
48½	40	12¾	46	49½	9¾	43½	60½	7¼
50½	37	14½	48	47½	10⅞	45½	59	8
52½	34½	16¼	50	45½	12	47½	57½	8⅞
54½	31	18½	52	43	13¼	49½	55½	9¾
56½	27½	21¼	54	40½	14¾	51½	54	10½
58½	23	24⅞	56	38	16⅞	53½	52	11½
			58	35	18¼	55½	49½	12½
			60	31½	20½	57½	47½	13¾
			62	27	23¾	59½	45	15
			64	22	27⅞	61½	42	16⅞
						63½	39	18⅞
						65½	36	20⅞
						67½	32	22⅞
						69½	27	25⅞
						71½	21½	28¼